

We claim:

1. An apparatus for collection and disposal of waste-water and debris in an operation for cleaning tubes comprising a bib in the general shape of a funnel with large open end for receiving waste-water and debris from tube ends, with conical body converging to a small end terminating in an elongate duct for leading waste water and debris to a drain, a support frame for receiving and maintaining the large end of the bib in open position, the frame having a plate for positioning the bib along the tube ends, mounting arms projecting from the plate for insertion into tube ends permitting placement of the bib as desired to collect effluent from the tubes during a tube cleaning operation.

2. An apparatus as defined in claim 1 in which the mounting arms are tube cleaning brushes slidably mounted on the plate.

3. An apparatus for collection and disposal of waste-water and debris in an operation for cleaning open-ended tubes mounted between tube sheets comprising a bib in the general shape of a funnel with large open end, with conical body converging to a small end terminating in an elongate duct for leading waste water and debris to a drain, a portion of the large open end of the bib having flaps, another portion of the large open end

between the flaps being in a generally straight edge for positioning under the tube sheet so as to collect ejected waste water and debris, a supporting frame having slotted side plates through which the flaps are threaded for maintaining the large end of the bib in open position, the supporting frame having mounting arms for insertion into tube ends thereby to position the bib with its straight edge beneath the tube sheet for collection of effluent from tubes in any given section of the tube sheet.

4. A method for collection waste-water and debris ejected from tubes in a tube cleaning operation comprising the steps of providing a flexible generally conical bib having a large open end and converging to a small end terminating in a drain duct, mounting the flexible bib on a supporting frame having mounting arms, inserting the mounting arms into tube ends adjacent a section of tubes to be cleaned, cleaning the tubes with a rotary brush and cleaning water, ejecting waste water and debris from the tubes, collecting ejected waste-water and debris in the bib, and passing the waste-water and debris through the duct for disposal.

5. An apparatus for collection and disposal of waste-water and debris comprising a bib in the general shape of a funnel with

large open end, with conical body converging to a small end terminating in an elongate duct for leading waste water and debris to a drain, the a portion of the large open end of the bib having flaps, a supporting frame having slotted side plates through which the flaps are threaded for maintaining the large end of the bib in open position, the supporting frame being mounted moveable stand so that the bib may be moved into position for collection of effluent from leaks of various kinds.

6. A flexible impermeable bib adapted for securement to a support frame in order to collect and dispose of fluid and debris, the bib comprising a conical body in the general shape of a funnel with large entry opening, the body converging toward and forming an elongate duct for leading fluid and debris to a sewer or drain pipe, the bib having means extending from the entry opening for securing the bib to a supporting frame which sets up and maintains the large end of the bib in wide open position.

7. A bib as defined in claim 6 in which the means for securing the bib comprise flaps extending from the large end of the bib.

8. A bib as defined in claim 6 which has an upper rim, a deflector panel extending from the upper rim, and means for

securing the deflector panel in operating position for deflecting fluid and debris down into the bib.

9. A bib as defined in claim 6 having integral deflector hood for deflecting fluid and debris down into the bib.